

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT:

- (A) NAME: The University of Leicester
- (B) STREET: University Road
- (C) CITY: Leicester
- (E) COUNTRY: United Kingdom
- (F) POSTAL CODE (ZIP): LE1 7RH

(ii) TITLE OF INVENTION: Complement Inhibitor

(iii) NUMBER OF SEQUENCES: 14

(iv) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Floppy disk
- (B) COMPUTER: IBM PC compatible
- (C) OPERATING SYSTEM: PC-DOS/MS-DOS
- (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)

(2) INFORMATION FOR SEQ ID NO: 1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 4229 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

TCGAGTCAAC TGCTCCCAGA TAGATCCAAG ACATGAGACT GTCAGCAAGA ATTATTTGGC 60

TTATATTATG GACTGTTTGT GTAGCAGAAG ATTGTAAAGG TCCTCCTCCA AGAGAAAATT 120

CAGAAATTCT CTCAGGTTCTG TGGTCTGAAC AACTATATTC AGAAGGCACT CAGGCAACCT 180

ACAAATGCCG CCCTGGATAC CGAACACTTG GTACTATTGT AAAAGTATGC AAGAATGGAG 240

AATGGGTACC TTCTAACCCA TCAAGGATAT GTGGGAAAAG GCCATGTGGG CATCCCGGAG 300

ACACACCCTT TGGGTCCTTT AGGCTGGCAG TTGGATCTGA ATTTGAATTT GGTGCAAAGG 360

TTGTTTATAC ATGTGATGAA GGGTACCAAC TATTAGGTGA AATTGATTAC CGTGAATGTG 420

ATGCAGATGG GTGGACCAAT GATATTCCAA TATGTGAAGT TGTGAAGTGC TTGCCAGTGA 480

CAGAACTGGA GAATGGAAGA ATTGTGAGTG GTGCAGCCGA ACCAGACCAG GAATATTATT 540

TTGGACAGGT GGTACGCTTT GAATGCAACT CCGGCTTCAA GATTGAAGGA CAGAAAGAAA 600

TGCACTGCTC ATAAAATGGC CTCTGGAGCA ATGAAGAGCC ACAGTGTGTG GAAATTTCTT 660

GCCTGCCACC ACGAGTTGAA AATGGAGATG GTATATATCT GAAACCAGTT TACAAGGAGA 720
ATGAAAGATT CCAATATAAA TGTAAGCAAG GTTTTGTGTA CAAAGAAAGA GGGGATGCTG 780
TCTGCACGGG TTCTGGATGG AATCCTCAGC CTTCTGTGA AGAAATGACA TGTTTGACTC 840
CATATATTCC AAATGGTATC TACACACCTC ACAGGATTAA ACACAGAATT GATGATGAAA 900
TCAGATATGA ATGTAAAAAT GGCTTCTATC CTGCAACCCG ATCACCTGTT TCAAAGTGTA 960
CAATTACTGG CTGGATCCCT GCTCCAAGAT GTAGCTTGAA ACCTTGTGAT TTTCCACAAT 1020
TCAAACATGG ACGTCTGTAT TATGAAGAAA GCCGGAGACC CTACTTCCCA GTACCTATAG 1080
GAAAGGAGTA CAGCTATAAC TGTGACAACG GGTTTACAAC GCCTTCACAG TCATACTGGG 1140
ACTACCTTCG TTGCACAGTA AATGGGTGGG AGCCTGAAGT TCCATGCCTC AGGCAATGTA 1200
TTTTCCATTA TGTGGAATAT GGAGAATCTT CATACTGGCA AAGAAGATAT ATAGAGGGTC 1260
AGTCTGCAAA AGTCCAGTGT CACAGTGGCT ATAGTCTTCC AAATGGTCAA GATACATATT 1320
ATTGTACAGA GAATGGCTGG TCCCCTCCTC CCAAATGCGT CCGTATCAAG ACTTGTTTCA 1380
TATCAGATAT AGAAATTGAA AATGGGTTTT TTTCTGAATC TGATTATACA TATGCTCTAA 1440
ATAGAAAAAC ACGGTATAGA TGTAACAGG GATATGTAAC AAATACCGGA GAAATATCAG 1500
GAATAATTAC TTGTCTTCAA GATGGATGGT CACCTCGACC CTCATGCATT AAGTCTTGTG 1560
ATATGCCTGT ATTTGAGAAT TCTATGACTA AGAATAATAA CACATGGTTT AACTCAATG 1620
ACAAATTAGA CTATGAATGT CACATTGGAT ATGAAAATGA ATATAAACAT ACCAAAGGCT 1680
CTATAACATG TACTTATGAT GGATGGTCTA GTACACCCTC CTGTTATGAA AGAGAATGCA 1740
GCATTCCCCT GTTACACCAA GACTTAGTTG TTTTCCCAG AGAAGTAAAA TACAAAGTTG 1800
GAGATTCGTT GAGTTTCTCT TGCCGTTTCA GACACAGAGT TGGAGCAGAT TTAGTGCAAT 1860
GCTACCACTT TGGATGGTCC CCTAATTTCC CAACGTGTGA AGGCCAAGTA AAATCATGTG 1920
ACCAACCTCT TGAAATCCCG AATGGGGAAA TAAAGGGAAC AAAAAAGTT GAATACAGCC 1980
ATGGTGACGT GGTGGAATAT GATTGCAAAC CTAGATTTCT ACTGAAGGGA CCAATAAAAA 2040
TCCAGTGTGT TGACGGGAAG TGGACAAGGT TGCCGATATG CGTTGAGTAT GAGAGAACAT 2100
GTGGAGACCT TCCTGAACTT GAGCATGGCT CTGTCAAGTT ATCTGTCCCT CCCTACCATC 2160
ATGGAGATTC AGTGGAGTTC ACTTGACAG AAACCTTCAC AATGATTGGA CATGCAGTAG 2220
TTTTCTGCAT TAGTGGAAGG TGGACCGAGC TTCCTCAATG TGTTGCAACA GATCAACTGG 2280
AGAAGTGTA AGCCCCGAAG TCAACTGGCA TAGATGCAAT TCATCCAAAT AAGAATGAAT 2340

TTAATCATAA CTTTAGTGTG AGTTACAGAT GTAGACAAAA GCAGGAGTAT GAACATTCAA 2400
TCTGCATCAA TGGAAGATGG GATCCTGAAC CAAACTGTAC AAGCAAAAGA TTCTGCCCTC 2460
CTCCCCCGCA GATTCCAAAT GCCCAAGTGA TTGAAACCAC CGTGAAATAC TTGGATGGAG 2520
AAAAAGTATC TGTTCTTTGC CAAGATGGTT ACCTAACTCA GGGCCCAGAA GAAATGGTGT 2580
GTAAACATGG AAGGTGGCAG TCGTTACCAC GCTGCACGGA AAAAATTCCA TGTTCCCAGC 2640
CCCCTAAAAT TGAACATGGA TCTATTAAGT CGCCCAGGTC CTCAGAAGAG AGGAGAGATT 2700
TAATTGAGTC CAGCAGTTAT GAACACGGAA CTACATTGAG CTATTGCTGT AGAGATGGAT 2760
TCAAGATATC TGAAGAAAAT AGGGTAACCT GCAACATGGG AAAATGGAGC TCTCTGCCTC 2820
GTTGTGTTGG AATACCTTGT GGACCCCCAC CTTCAATTCC TCTTGGTATT GTTTCTCATG 2880
AACTAGAAAG TTACCAATAT GGAGAGGAGG TTACATACAA TTGTTCTGAA GGCTTTGGAA 2940
TTGATGGACC AGCATTATTT AAATGTGTAG GAGGACAGTG GTCTGAACCT CCCAAATGCA 3000
TAAAAACTGA TTGTGACAAC TTGCCACAT TTGAAATTGC CAAACCGACA GAAAAGAAAA 3060
AAAAATCATA CAGGTCAGGA GAACAAGTGA CATTGAGATG TCCACCTCCG TATCGAATGG 3120
ATGGCTCTGA CATTGTCACA TGTGTTAATA CGAAGTGGAT TGGACAGCCG GTATGCAAAG 3180
ATAATTCCTG TGTGAATCCA CCACATGTGC CAAATGCTAC TATACTAACA AGGCACAAGA 3240
CTAAATATCC ATCTGGTGAC AAAGTACGTT ATGACTGTAA TAAACCTTTT GAATTATTTG 3300
GGGAAGTGGA AGTGATGTGC CAAAACGGGA TTTGGACAGA ACCACCGAAA TGCAAAGATT 3360
CAACAGGGAA ATGTGGGCCT CCTCCACCTA TTGACAATGG AGACATCACC TCCTTGTCAT 3420
TACCAGTATA TGCACCATTA TCATCAGTTG AATATCAATG CCAGAACTAT TATCTACTTA 3480
AGGGAAATAA GATAGTAACA TGTAAGAAATG GAAAGTGGTC TCAGCCACCA ACCTGCTTAC 3540
ATGCATGTGT GATACCAGAA GATATTATGG AAAACATAA TATAGTTCTC AGATGGAGGG 3600
AAAATGCAAA GATTTATTCC CAATCAGGGG AGAATATTGA ATTCATGTGT AAACCTGGAT 3660
ATAGAAAATT CAGAGGATCA CCTCCGTTTC GTACAAAGTG CATTGAGGGT CACATCAATT 3720
ATCCCCTTG TGTATAAAAT CGCTATACAA TTATTAGTAA ACCTTATGGA TGAGAAATGC 3780
ACATGTATAT TACTAATACA GTTTGAATTT ACATTTAAAT ATTGTTTAGC TCATTTCTC 3840
TAATAAGTAT ATAACTTTT TTTATATGGT GGTAAATCAG TAACTTTACA GACTGTTGCC 3900
ACAAAGCAAG AACATTACAT TCAAACTCC TAATCCAAAT ATGATATGTC CAAGGACAAA 3960
CTATGTCTAA GCAAGAAAAT AAATGTTAGT TCTTCAATGT CTGTTTTTAT TCAGGACCTT 4020

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TCAGATTTTC TTGGATACCT TTTGTTAGGT TCTGATTCAC AGTGAGTGGA AGACACACTG	4080
ACTCTGACTT CAAATTAGTA TTA CTGCAA TACATTAACA ACCAACTAT CATAATATCA	4140
CAAATGTATA CAGCTAATTA CTGTGTCCTA CCTTTGTATC AATAAAGAAA TCTAAGAAAG	4200
TTCTTGCTTA AAAAAAAAAA AAAAAAAAAA	4229

(2) INFORMATION FOR SEQ ID NO: 2:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 866 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

TCGAGTCAAC TGCTCCCAGA TAGATCCAAG ACATGAGACT GTCAGCAAGA ATTATTTGGC	60
TTATATTATG GACTGTTTGT GTAGCAGAAG ATTGTAAAGG TCCTCCTCCA AGAGAAAATT	120
CAGAAATTCT CTCAGGTTCTG TGGTCTGAAC AACTATATTC AGAAGGCACT CAGGCAACCT	180
ACAAATGCCG CCCTGGATAC CGAACACTTG GTACTATTGT AAAAGTATGC AAGAATGGAG	240
AATGGGTACC TTCTAACCCA TCAAGGATAT GTCGAAAAG GCCATGTGGG CATCCCGGAG	300
ACACACCCTT TGGGTCCTTT AGGCTGGCAG TTGGATCTGA ATTTGAATTT GGTGCAAAGG	360
TTGTTTATAC ATGTGATGAA GGGTACCAAC TATTAGGTGA AATTGATTAC CGTGAATGTG	420
ATGCAGATGG GTGGACCAAT GATATTCCAA TATGTGAAGT TGTGAAGTGC TTGCCAGTGA	480
CAGAACTGGA GAATGGAAGA ATTGTGAGTG GTGCAGCCGA ACCAGACCAG GAATATTATT	540
TTGGACAGGT GGTACGCTTT GAATGCAACT CCGGCTTCAA GATTGAAGGA CAGAAAGAAA	600
TGCACTGCTC ATAAAATGGC CTCTGGAGCA ATGAAAAGCC ACAGTGTGTG GAAATTTCTT	660
GCCTGCCACC ACGAGTTGAA AATGGAGATG GATATAGAAA ATTCAGAGGA TCACCTCCGT	720
TTCGTACAAA GTGCATTGAG GGTCACATCA ATTATCCAC TTGTGTATAA AATCGCTATA	780
CAATTATTAG TAAACCTTAT GGATGACACT TTGTTTAGAA ATGCACATGT ATATTACTAA	840
TACAGTTTGA ATTTACATTT GAAAAA	866

(2) INFORMATION FOR SEQ ID NO: 3:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 2715 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: unknown

001616-05199

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

TCGAGTCAAC TGCTCCCAGA TAGATCCAAG ACATGAGACT GTCAGCAAGA ATTATTTGGC 60
TTATATTATG GACTGTTTGT GTAGCAGAAG ATTGTAAAGG TCCTCCTCCA AGAGAAAATT 120
CAGAAATTCT CTCAGGTTCTG TGGTCTGAAC AACTATATTC AGAAGGCACT CAGGCAACCT 180
ACAAATGCCG CCCTGGATAC CGAACACTTG GTACTATTGT AAAAGTATGC AAGAATGGAG 240
AATGGGTACC TTCTAACCCA TCAAGGATAT GTCGGAAAAG GCCATGTGGG CATCCCGGAG 300
ACACACCCTT TGGGTCCTTT AGGCTGGCAG TTGGATCTGA ATTTGAATTT GGTGCAAAGG 360
TTGTTTATAC ATGTGATGAA GGGTACCAAC TATTAGGTGA AATTGATTAC CGTGAATGTG 420
ATGCAGATGG GTGGACCAAT GATATTCCAA TATGTGAAGT TGTGAAGTGC TTGCCAGTGA 480
CAGAACTGGA GAATGGAAGA ATTGTGAGTG GTGCAGCCGA ACCAGACCAG GAATATTATT 540
TTGGACAGGT GGTACGCTTT GAATGCAACT CCGGCTTCAA GATTGAAGGA CAGAAAGAAA 600
TGCACTGCTC ATAAAATGGC CTCTGGAGCA ATGAAAAGCC ACAGTGTGTG TTGAAACCTT 660
GTGATTTTCC ACAATTCAAA CATGGACGTC TGTATTATGA AGAAAGCCGG AGACCCTACT 720
TCCCAGTACC TATAGGAAAAG GAGTACAGCT ATAAGTGTGA CAACGGGTTT ACAACGCCTT 780
CACAGTCATA CTGGGACTAC CTTCGTTGCA CAGTAAATGG GTGGGAGCCT GAAGTTCCAT 840
GCCTCAGGCA ATGTATTTTC CATTATGTGG AATATGGAGA ATCTTCATAC TGGCAAAGAA 900
GATATATAGA GGGTCAGTCT GCAAAAGTCC AGTGTACAG TGGCTATAGT CTTCCAAATG 960
GTCAAGATAC ATATTATTGT ACAGAGAATG GCTGGTCCCC TCCTCCCAA TGCGTCCGTA 1020
TCAAGACTTG TTCAGTATCA GATATAGAAA TTGAAAATGG GTTTTTTTCT GAATCTGATT 1080
ATACATATGC TCTAAATAGA AAAACACGGT ATAGATGTAA ACAGGGATAT GTAACAAATA 1140
CCGGAGAAAT ATCAGGAATA ATTACTTGTC TTCAAGATGG ATGGTCACCT CGACCCTCAT 1200
GCATTAAGTC TTGTGATATG CCTGTATTTG AGAATTCTAT GACTAAGAAT AATAACACAT 1260
GGTTTAAACT CAATGACAAA TTAGACTATG AATGTCACAT TGGATATGAA AATGAATATA 1320
AACATACCAA AGGCTCTATA ACATGTACTT ATGATGGATG GTCTAGTACA CCCTCCTGTT 1380
ATGAAAGAGA ATGCAGCATT CCCCTGTTAC ACCAAGACTT AGTTGTTTTT CCCAGAGAAG 1440
TAAATACAA AGTTGGAGAT TCGTTGAGTT TCTCTTGCCG TTCAGGACAC AGAGTTGGAG 1500
CAGATTTAGT GCAATGCTAC CACTTTGGAT GGTCCCCTAA TTTCCCAACG TGTGAAGGCC 1560
AAGTAAAATC ATGTGACCAA CCTCTTGAAA TCCCGAATGG GGAAATAAAG GGAACAAAAA 1620

AAGTTGAATA CAGCCATGGT GACGTGGTGG AATATGATTG CAAACCTAGA TTTCTACTGA 1680
 AGGGACCCAA TAAAATCCAG TGTGTTGACG GGAAGTGGAC AAGGTTGCCG ATATGCGTTG 1740
 AGTATGAGAG AACATGTGGA GACCTTCCTG AACTTGAGCA TGGCTCTGTC AAGTTATCTG 1800
 TCCCTCCCTA CCATCATGGA GATTCAGTGG AGTTCACCTG TACAGAAACC TTCACAATGA 1860
 TTGGACATGC AGTAGTTTTT TGCATTAGTG GAAGGTGGAC CGAGCTTCCT CAATGTGTTG 1920
 CAACAGATCA ACTGGAGAAG GTTAAAGCCC CGAAGTCAAC TGGCATAGAT GCAATTCATC 1980
 CAAATAAGAA TGAATTTAAT CATAACTTTA GTGTGAGTTA CAGATGTAGA CAAAAGCAGG 2040
 AGTATGAACA TTCAATCTGC ATCAATGGAA GATGGGATCC TGAACCAAAC TGTACAAGCA 2100
 AAAGATTCTG CCCTCCTCCC CCGCAGATTC CAAATGCCCA AGTGATTGAA ACCACCGTGA 2160
 AATACTTGGA TGGAGAAAAA GTATCTGTTT TTTGCCAAGA TGGTTACCTA ACTCAGGGCC 2220
 CAGAAGAAAT GGTGTGTAAA CATGGAAGGT GGCAGTCGTT ACCACGCTGC ACGGAAAAAA 2280
 TTCCATGTTT CCAGCCCCCT AAAATTGAAC ATGGATCTAT TAAGTCGCCC AGGTCTCAG 2340
 AAGAGAGGAG AGATTTAATT GAGTCCAGCA GTTATGAACA CGGAACCTACA TTCAGCTATT 2400
 GCTGTAGAGA TGGATTCAAG ATATCTGAAG AAAATAGGGT AACCTGCAAC ATGGGAAAAT 2460
 GGAGCTCTCT GCCTCGTTGT GTTGAATAC CTTGTGGACC CCCACCTTCA ATTCCTCTTG 2520
 GTATTGTTTT TCATGAACTA GAAAGTTACC AATATGGAGA GGAGGTTACA TACAATTGTT 2580
 CTGAAGGCTT TGAATTGAT GGACCAGCAT TTATTAAATG TGTAGGAGGA CAGTGGTCTG 2640
 AACCTCCCAA ATGCATAAAA ACTGATTGTG ACAACTTGCC CACATTTGAA ATTGCCAAAC 2700
 CGACAGAAAA GAAAA 2715

(2) INFORMATION FOR SEQ ID NO: 4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 1532 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: double
- (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

TCGAGTCAAC TGCTCCAGTA TAGATCCAAG ACATGAGACT GTCAGCAAGA ATTATTTGGC 60
 TTATATTATG GACTGTTTGT GTAGCAGAAG ATTGTAAAGG TCCTCCTCCA AGAGAAAATT 120
 CAGAAATTCT CTCAGGTTCT TGGTCTGAAC AACTATATTC AGAAGGCACT CAGGCAACCT 180
 ACAAATGCCG CCCTGGATAC CGAACACTTG GTACTATTGT AAAAGTATGC AAGAATGGAG 240

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AATGGGTACC TTCTAACCCA TCAAGGATAT GTCGGAAAAG GCCATGTGGG CATCCCGGAG 300
 ACACACCCTT TGGGTCCTTT AGGCTGGCAG TTGGATCTGA ATTTGAATTT GGTGCAAAGG 360
 TTGTTTATAC ATGTGATGAA GGGTACCAAC TATTAGGTGA AATTGATTAC CGTTATCGAA 420
 TGGATGGCTC TGACATTGTC ACATGTGTTA ATACGAAGTG GATTGGACAG CCGGTATGCA 480
 AAGATAATTC CTGTGTGAAT CCACCACATG TGCCAAATGC TACTATACTA ACAAGGCACA 540
 AGACTAAATA TCCATCTGGT GACAAAGTAC GTTATGACTG TAATAAACCT TTTGAATTAT 600
 TTGGGGAAGT GGAAGTGATG TGCCAAAACG GGATTTGGAC AGAACCACCG AAATGCAAAG 660
 ATTCAACAGG GAAATGTGGG CCTCCTCCAC CTATTGACAA TGGAGACATC ACCTCCTTGT 720
 CATTACCAGT ATATGCACCA TTATCATCAG TTGAATATCA ATGCCAGAAC TATTATCTAC 780
 TTAAGGGAAA TAAGATAGTA ACATGTAGAA ATGGAAAGTG GTCTCAGCCA CCAACCTGCT 840
 TACATGCATG TGTGATACCA GAAGATATTA TGGAAAAACA TAATATAGTT CTCAGATGGA 900
 GGGAAAATGC AAAGATTTAT TCCCAATCAG GGGAGAATAT TGAATTCATG TGTAACCTG 960
 GATATAGAAA ATTCAGAGGA TCACCTCCGT TTCGTACAAA GTGCATTGAG GGTCACATCA 1020
 ATTATCCCAC TTGTGTATAA AATCGCTATA CAATTATTAG TAAACCTTAT GGATGAGAAA 1080
 TGCACATGTA TATTACTAAT ACAGTTTGAA TTTACATTTA AATATTGTTT AGCTCATTTT 1140
 CTCTAATAAG TATATAAACT TTTTTTATAT GGTGGTTAAT CAGTAACTTT ACAGACTGTT 1200
 GCCACAAAGC AAGAACATTA CATTCAAAAC TCCTAATCCA AATATGATAT GTCCAAGGAC 1260
 AAACTATGTC TAAGCAAGAA AATAAATGTT AGTTCTTCAA TGTCTGTTTT TATTCAGGAC 1320
 CTTTCAGATT TTCTTGGATA CCTTTTGTTA GGTTCTGATT CACAGTGAGT GGAAGACACA 1380
 CTGACTCTGA CTTCAAATTA GTATTACTTG CAATACATTA ACAACCAAAC TATCATAATA 1440
 TCACAAATGT ATACAGCTAA TTAAGTGTGTC CTACCTTTGT ATCAATAAAG AAATCTAAGA 1500
 AAGTTCTTGC TTAAAAAAAA AAAAAAAAAA AA 1532

(2) INFORMATION FOR SEQ ID NO: 5:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 27 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:

TTCAAGTAAC GTTAGAAGCT TAAGATG

27

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(2) INFORMATION FOR SEQ ID NO: 6:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:

GGCGGCCGCT CAAATCTTCT GAGATATAGG AGA

33

(2) INFORMATION FOR SEQ ID NO: 7:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:

GGCGGCCGCT CATTTAATCC TTAAAGGTGA GTA

33

(2) INFORMATION FOR SEQ ID NO: 8:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 33 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:

GGCGGCCGCT CATACTGGAA AGTATGGTCT ACG

33

(2) INFORMATION FOR SEQ ID NO: 9:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 207 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:

Glu	Asp	Cys	Asn	Glu	Leu	Pro	Pro	Arg	Arg	Asn	Thr	Glu	Ile	Leu	Thr
1				5				10					15		

Gly	Ser	Trp	Ser	Asp	Gln	Thr	Tyr	Pro	Glu	Gly	Thr	Gln	Ala	Ile	Tyr
			20					25					30		

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Lys Cys Arg Pro Gly Tyr Arg Ser Leu Gly Asn Val Ile Met Val Cys
 35 40 45
 Arg Lys Gly Glu Trp Val Ala Leu Asn Pro Leu Arg Lys Cys Gln Lys
 50 55 60
 Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Thr Phe Thr Leu
 65 70 75 80
 Thr Gly Gly Asn Val Phe Glu Tyr Gly Val Lys Ala Val Tyr Thr Cys
 85 90 95
 Asn Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asn Tyr Arg Glu Cys Asp
 100 105 110
 Thr Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys
 115 120 125
 Leu Pro Val Thr Ala Pro Glu Asn Gly Lys Ile Val Ser Ser Ala Met
 130 135 140
 Glu Pro Asp Arg Glu Tyr His Phe Gly Gln Ala Val Arg Phe Val Cys
 145 150 155 160
 Asn Ser Gly Tyr Lys Ile Glu Gly Asp Glu Glu Met His Cys Ser Asp
 165 170 175
 Asp Gly Phe Trp Ser Lys Glu Lys Pro Lys Cys Val Glu Ile Ser Cys
 180 185 190
 Lys Ser Pro Asp Val Ile Asn Gly Ser Pro Ile Ser Gln Lys Ile
 195 200 205

(2) INFORMATION FOR SEQ ID NO: 10:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 265 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

Glu Asp Cys Asn Glu Leu Pro Pro Arg Arg Asn Thr Glu Ile Leu Thr
 1 5 10 15
 Gly Ser Trp Ser Asp Gln Thr Tyr Pro Glu Gly Thr Gln Ala Ile Tyr
 20 25 30
 Lys Cys Arg Pro Gly Tyr Arg Ser Leu Gly Asn Val Ile Met Val Cys
 35 40 45
 Arg Lys Gly Glu Trp Val Ala Leu Asn Pro Leu Arg Lys Cys Gln Lys
 50 55 60

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Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Thr Phe Thr Leu
 65 70 75 80
 Thr Gly Gly Asn Val Phe Glu Tyr Gly Val Lys Ala Val Tyr Thr Cys
 85 90 95
 Asn Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asn Tyr Arg Glu Cys Asp
 100 105 110
 Thr Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys
 115 120 125
 Leu Pro Val Thr Ala Pro Glu Asn Gly Lys Ile Val Ser Ser Ala Met
 130 135 140
 Glu Pro Asp Arg Glu Tyr His Phe Gly Gln Ala Val Arg Phe Val Cys
 145 150 155 160
 Asn Ser Gly Tyr Lys Ile Glu Gly Asp Glu Glu Met His Cys Ser Asp
 165 170 175
 Asp Gly Phe Trp Ser Lys Glu Lys Pro Lys Cys Val Glu Ile Ser Cys
 180 185 190
 Lys Ser Pro Asp Val Ile Asn Gly Ser Pro Ile Ser Gln Lys Ile Ile
 195 200 205
 Tyr Lys Glu Asn Glu Arg Phe Gln Tyr Lys Cys Asn Met Gly Tyr Glu
 210 215 220
 Tyr Ser Glu Arg Gly Asp Ala Val Cys Thr Glu Ser Gly Trp Arg Pro
 225 230 235 240
 Leu Pro Ser Cys Glu Glu Lys Ser Cys Asp Asn Pro Tyr Ile Pro Asn
 245 250 255
 Gly Asp Tyr Ser Pro Leu Arg Ile Lys
 260 265

(2) INFORMATION FOR SEQ ID NO: 11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 329 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

Glu Asp Cys Asn Glu Leu Pro Pro Arg Arg Asn Thr Glu Ile Leu Thr
 1 5 10 15
 Gly Ser Trp Ser Asp Gln Thr Tyr Pro Glu Gly Thr Gln Ala Ile Tyr
 20 25 30

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Lys Cys Arg Pro Gly Tyr Arg Ser Leu Gly Asn Val Ile Met Val Cys
 35 40 45
 Arg Lys Gly Glu Trp Val Ala Leu Asn Pro Leu Arg Lys Cys Gln Lys
 50 55 60
 Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Thr Phe Thr Leu
 65 70 75 80
 Thr Gly Gly Asn Val Phe Glu Tyr Gly Val Lys Ala Val Tyr Thr Cys
 85 90 95
 Asn Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asn Tyr Arg Glu Cys Asp
 100 105 110
 Thr Asp Gly Trp Thr Asn Asp Ile Pro Ile Cys Glu Val Val Lys Cys
 115 120 125
 Leu Pro Val Thr Ala Pro Glu Asn Gly Lys Ile Val Ser Ser Ala Met
 130 135 140
 Glu Pro Asp Arg Glu Tyr His Phe Gly Gln Ala Val Arg Phe Val Cys
 145 150 155 160
 Asn Ser Gly Tyr Lys Ile Glu Gly Asp Glu Glu Met His Cys Ser Asp
 165 170 175
 Asp Gly Phe Trp Ser Lys Glu Lys Pro Lys Cys Val Glu Ile Ser Cys
 180 185 190
 Lys Ser Pro Asp Val Ile Asn Gly Ser Pro Ile Ser Gln Lys Ile Ile
 195 200 205
 Tyr Lys Glu Asn Glu Arg Phe Gln Tyr Lys Cys Asn Met Gly Tyr Glu
 210 215 220
 Tyr Ser Glu Arg Gly Asp Ala Val Cys Thr Glu Ser Gly Trp Arg Pro
 225 230 235 240
 Leu Pro Ser Cys Glu Glu Lys Ser Cys Asp Asn Pro Tyr Ile Pro Asn
 245 250 255
 Gly Asp Tyr Ser Pro Leu Arg Ile Lys His Arg Thr Gly Asp Glu Ile
 260 265 270
 Thr Tyr Gln Cys Arg Asn Gly Phe Tyr Pro Ala Thr Arg Gly Asn Thr
 275 280 285
 Ala Lys Cys Thr Ser Thr Gly Trp Ile Pro Ala Pro Arg Cys Thr Leu
 290 295 300
 Lys Pro Cys Asp Tyr Pro Asp Ile Lys His Gly Gly Leu Tyr His Glu
 305 310 315 320
 Asn Met Arg Arg Pro Tyr Phe Pro Val
 325

00916163 052199

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(2) INFORMATION FOR SEQ ID NO: 12:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 32 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

CCTCCTCCTG GAAATGTTAG AAGCTTAAGA TG

32

(2) INFORMATION FOR SEQ ID NO: 13:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 29 base pairs
 - (B) TYPE: nucleic acid
 - (C) STRANDEDNESS: single
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

CCTCTAGATT ACTTGATACG GACGCATTT

29

(2) INFORMATION FOR SEQ ID NO: 14:

- (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 428 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: unknown

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

Glu Asp Cys Lys Gly Pro Pro Pro Arg Glu Asn Ser Glu Ile Leu Ser
1 5 10 15

Gly Ser Trp Ser Glu Gln Leu Tyr Ser Glu Gly Thr Gln Ala Thr Tyr
20 25 30

Lys Cys Arg Pro Gly Tyr Arg Thr Leu Gly Thr Ile Val Lys Val Cys
35 40 45

Lys Asn Gly Glu Trp Val Pro Ser Asn Pro Ser Arg Ile Cys Arg Lys
50 55 60

Arg Pro Cys Gly His Pro Gly Asp Thr Pro Phe Gly Ser Phe Arg Leu
65 70 75 80

Ala Val Gly Ser Glu Phe Glu Phe Gly Ala Lys Val Val Tyr Thr Cys
85 90 95

Asp Glu Gly Tyr Gln Leu Leu Gly Glu Ile Asp Tyr Arg Glu Cys Asp

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EST-1998-004646460

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100										105					110				
Ala	Asp	Gly	Trp	Thr	Asn	Asp	Ile	Pro	Ile	Cys	Glu	Val	Val	Lys	Cys				
		115					120					125							
Leu	Pro	Val	Thr	Glu	Leu	Glu	Asn	Gly	Arg	Ile	Val	Ser	Gly	Ala	Ala				
		130				135					140								
Glu	Pro	Asp	Gln	Glu	Tyr	Tyr	Phe	Gly	Gln	Val	Val	Arg	Phe	Glu	Cys				
145					150					155					160				
Asn	Ser	Gly	Phe	Lys	Ile	Glu	Gly	Gln	Lys	Glu	Met	His	Cys	Ser	Glu				
				165					170					175					
Asn	Gly	Leu	Trp	Ser	Asn	Glu	Lys	Pro	Gln	Cys	Val	Glu	Ile	Ser	Cys				
			180					185					190						
Leu	Pro	Pro	Arg	Val	Glu	Asn	Gly	Asp	Gly	Ile	Tyr	Leu	Lys	Pro	Val				
		195					200					205							
Tyr	Lys	Glu	Asn	Glu	Arg	Phe	Gln	Tyr	Lys	Cys	Lys	Gln	Gly	Phe	Val				
210						215					220								
Tyr	Lys	Glu	Arg	Gly	Asp	Ala	Val	Cys	Thr	Gly	Ser	Gly	Trp	Asn	Pro				
225					230					235					240				
Gln	Pro	Ser	Cys	Glu	Glu	Met	Thr	Cys	Leu	Thr	Pro	Tyr	Ile	Pro	Asn				
			245					250						255					
Gly	Ile	Tyr	Thr	Pro	His	Arg	Ile	Lys	His	Arg	Ile	Asp	Asp	Glu	Ile				
			260					265					270						
Arg	Tyr	Glu	Cys	Lys	Asn	Gly	Phe	Tyr	Pro	Ala	Thr	Arg	Ser	Pro	Val				
		275					280					285							
Ser	Lys	Cys	Thr	Ile	Thr	Gly	Trp	Ile	Pro	Ala	Pro	Arg	Cys	Ser	Leu				
		290				295				300									
Lys	Pro	Cys	Asp	Phe	Pro	Gln	Phe	Lys	His	Gly	Arg	Leu	Tyr	Tyr	Glu				
305					310					315					320				
Glu	Ser	Arg	Arg	Pro	Tyr	Phe	Pro	Val	Pro	Ile	Gly	Lys	Glu	Tyr	Ser				
			325					330					335						
Tyr	Tyr	Cys	Asp	Asn	Gly	Phe	Thr	Thr	Pro	Ser	Gln	Ser	Tyr	Trp	Asp				
		340						345					350						
Tyr	Leu	Arg	Cys	Thr	Val	Asn	Gly	Trp	Glu	Pro	Glu	Val	Pro	Cys	Leu				
		355					360					365							
Arg	Gln	Cys	Ile	Phe	His	Tyr	Val	Glu	Tyr	Gly	Glu	Ser	Ser	Tyr	Trp				
		370				375					380								
Gln	Arg	Arg	Tyr	Ile	Glu	Gly	Gln	Ser	Ala	Lys	Val	Gln	Cys	His	Ser				
385					390					395					400				

0016153-052159

Gly Tyr Ser Leu Pro Asn Gly Gln Asp Thr Tyr Tyr Cys Thr Glu Asn
405 410 415

Gly Trp Ser Pro Pro Pro Lys Cys Val Arg Ile Lys
420 425

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10	20	30	-18	40	50	60	
tcgagtc	caactgctcccagatagatccaagac	ATGAGACTGT	CAGCAAGAATTATTTGGC				rFH4.3
tcgagtc	caactgctcccagatagatccaagac	ATGAGACTGT	CAGCAAGAATTATTTGGC				rFH2.7
tcgagtc	caactgctcccagatagatccaagac	ATGAGACTGT	CAGCAAGAATTATTTGGC				rFH1.8
tcgagtc	caactgctcccagatagatccaagac	ATGAGACTGT	CAGCAAGAATTATTTGGC				rFH1.0

SCR1						
70	80	+1 90	100	110	120	
TTATATTATGGACTGTTTGTGTAGCAGAA	GATTGTAAAGGTCCTCCTCCAAGAGAAAATT					rFH4.3
TTATATTATGGACTGTTTGTGTAGCAGAA	GATTGTAAAGGTCCTCCTCCAAGAGAAAATT					rFH2.7
TTATATTATGGACTGTTTGTGTAGCAGAA	GATTGTAAAGGTCCTCCTCCAAGAGAAAATT					rFH1.8
TTATATTATGGACTGTTTGTGTAGCAGAA	GATTGTAAAGGTCCTCCTCCAAGAGAAAATT					rFH1.0

130	140	150	160	170	180
CAGAAATTCTCTCAGGTTCTGGTCTGAACAACATATTCAGAAGGCACTCAGGCAACCT					rFH4.3
CAGAAATTCTCTCAGGTTCTGGTCTGAACAACATATTCAGAAGGCACTCAGGCAACCT					rFH2.7
CAGAAATTCTCTCAGGTTCTGGTCTGAACAACATATTCAGAAGGCACTCAGGCAACCT					rFH1.8
CAGAAATTCTCTCAGGTTCTGGTCTGAACAACATATTCAGAAGGCACTCAGGCAACCT					rFH1.0

190	200	210	220	230	240	
ACAAATGCCGCCCTGGATACCGAACACTTGGTACTATTGTAAAAGTATGCAAGAATGGAG						rFH4.3
ACAAATGCCGCCCTGGATACCGAACACTTGGTACTATTGTAAAAGTATGCAAGAATGGAG						rFH2.7
ACAAATGCCGCCCTGGATACCGAACACTTGGTACTATTGTAAAAGTATGCAAGAATGGAG						rFH1.8
ACAAATGCCGCCCTGGATACCGAACACTTGGTACTATTGTAAAAGTATGCAAGAATGGAG						rFH1.0

SCR2a						
250	260	270	280	290	300	
AATGGGTACCTTCTA	ACCCATCAAGGATAT	GTTCGGAAAAGGCC	CATGTGGGCATCCC	GGAG		rFH4.3
AATGGGTACCTTCTA	ACCCATCAAGGATAT	GTTCGGAAAAGGCC	CATGTGGGCATCCC	GGAG		rFH2.7
AATGGGTACCTTCTA	ACCCATCAAGGATAT	GTTCGGAAAAGGCC	CATGTGGGCATCCC	GGAG		rFH1.8
AATGGGTACCTTCTA	ACCCATCAAGGATAT	GTTCGGAAAAGGCC	CATGTGGGCATCCC	GGAG		rFH1.0

310	320	330	340	350	360	
ACACACCCTTTGGGTCCTTTAGGCTGGCAGTTGGATCTGAATTTGAATTTGGTGCAAAGG						rFH4.3
ACACACCCTTTGGGTCCTTTAGGCTGGCAGTTGGATCTGAATTTGAATTTGGTGCAAAGG						rFH2.7
ACACACCCTTTGGGTCCTTTAGGCTGGCAGTTGGATCTGAATTTGAATTTGGTGCAAAGG						rFH1.8
ACACACCCTTTGGGTCCTTTAGGCTGGCAGTTGGATCTGAATTTGAATTTGGTGCAAAGG						rFH1.0

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SCR2b

370	380	390	400	410	420	
TTGTTT	TATACATGTGATGAAGGGTACCAACTATTAGGTGAAATTGATTACCGTGAATGTG					rFH4.3
TTGTTT	TATACATGTGATGAAGGGTACCAACTATTAGGTGAAATTGATTACCGTGAATGTG					rFH2.7
TTGTTT	TATACATGTGATGAAGGGTACCAACTATTAGGTGAAATTGATTACCGT-----					rFH1.8
TTGTTT	TATACATGTGATGAAGGGTACCAACTATTAGGTGAAATTGATTACCGTGAATGTG					rFH1.0

SCR3

430	440	450	460	470	480	
ATGCAGATGGGTGGACCAATGATATTTCCAATATGTGAAGTTGTGAAGTGCTTGCCAGTGA						rFH4.3
ATGCAGATGGGTGGACCAATGATATTTCCAATATGTGAAGTTGTGAAGTGCTTGCCAGTGA						rFH2.7
-----						rFH1.8
ATGCAGATGGGTGGACCAATGATATTTCCAATATGTGAAGTTGTGAAGTGCTTGCCAGTGA						rFH1.0

490	500	510	520	530	540	
CAGAACTGGAGAATGGAAGAATTGTGAGTGGTGCAGCCGAACCAGACCAGGAATATTATT						rFH4.3
CAGAACTGGAGAATGGAAGAATTGTGAGTGGTGCAGCCGAACCAGACCAGGAATATTATT						rFH2.7
-----						rFH1.8
CAGAACTGGAGAATGGAAGAATTGTGAGTGGTGCAGCCGAACCAGACCAGGAATATTATT						rFH1.0

550	560	570	580	590	600	
TTGGACAGGTGGTACGCTTTGAATGCAACTCCGGCTTCAAGATTGAAGGACAGAAAGAAA						rFH4.3
TTGGACAGGTGGTACGCTTTGAATGCAACTCCGGCTTCAAGATTGAAGGACAGAAAGAAA						rFH2.7
-----						rFH1.8
TTGGACAGGTGGTACGCTTTGAATGCAACTCCGGCTTCAAGATTGAAGGACAGAAAGAAA						rFH1.0

SCR4

610	620	630	640	650	660	
TGCACTGCTCATAAAATGGCCTCTGGAGCAATGAAAAGCCACAGTGTGTGGAAATTTCTT						rFH4.3
TGCACTGCTCATAAAATGGCCTCTGGAGCAATGAAAAGCCACAGTGTGTG-----						rFH2.7
-----						rFH1.8
TGCACTGCTCATAAAATGGCCTCTGGAGCAATGAAAAGCCACAGTGTGTGGAAATTTCTT						rFH1.0

670	680	690	700	710	720	
GCCTGCCACCACGAGTTGAAAATGGAGATGGTATATATCTGAAACCAGTTTACAAGGAGA						rFH4.3
-----						rFH2.7
-----						rFH1.8
GCCTGCCACCACGAGTTGAAAATGGAGAT-----						rFH1.0

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730	740	750	760	770	780	
ATGAAAGATTCCAATATAAATGTAAGCAAGGTTTTGTGTACAAAGAAAGAGGGGATGCTG						rFH4.3
-----						rFH2.7
-----						rFH1.8
-----						rFH1.0

SCR5						
790	800	810	820	830	840	
TCTGCACGGGTTCTGGATGGAATCCTCAGCCTTCCTGTGAAGAAATGACATGTTTGACTC						rFH4.3
-----						rFH2.7
-----						rFH1.8
-----						rFH1.0

850	860	870	880	890	900	
CATATATTCCAAATGGTATCTACACACCTCACAGGATTAAACACAGAATTGATGATGAAA						rFH4.3
-----						rFH2.7
-----						rFH1.8
-----						rFH1.0

910	920	930	940	950	960	
TCAGATATGAATGTAAAAATGGCTTCTATCCTGCAACCCGATCACCTGTTTCAAAGTGTA						rFH4.3
-----						rFH2.7
-----						rFH1.8
-----						rFH1.0

SCR6						
970	980	990	1000	1010	1020	
CAATTACTGGCTGGATCCCTGCTCCAAGATGTAGCTTGAAACCTTGTGATTTTCCACAAT						rFH4.3
-----TTGAAACCTTGTGATTTTCCACAAT						rFH2.7
-----						rFH1.8
-----						rFH1.0

1030	1040	1050	1060	1070	1080	
TCAAACATGGACGTCTGTATTATGAAGAAAGCCGGAGACCCTACTTCCCAGTACCTATAG						rFH4.3
TCAAACATGGACGTCTGTATTATGAAGAAAGCCGGAGACCCTACTTCCCAGTACCTATAG						rFH2.7
-----						rFH1.8
-----						rFH1.0

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1090	1100	1110	1120	1130	1140	
GAAAGGAGTACAGCTATAACTGTGACAACGGGTTTACAACGCCTTCACAGTCATACTGGG						rFH4.3
GAAAGGAGTACAGCTATAACTGTGACAACGGGTTTACAACGCCTTCACAGTCATACTGGG						rFH2.7
-----						rFH1.8
-----						rFH1.0

SCR7						
1150	1160	1170	1180	1190	1200	
ACTACCTTCGTTGCACAGTAAATGGGTGGGAGCCTGAAGTTCCATGCCTCAGGCAATGTA						rFH4.3
ACTACCTTCGTTGCACAGTAAATGGGTGGGAGCCTGAAGTTCCATGCCTCAGGCAATGTA						rFH2.7
-----						rFH1.8
-----						rFH1.0

1210	1220	1230	1240	1250	1260	
TTTTCCATTATGTGGAATATGGAGAATCTTCATACTGGCAAAGAAGATATATAGAGGGTC						rFH4.3
TTTTCCATTATGTGGAATATGGAGAATCTTCATACTGGCAAAGAAGATATATAGAGGGTC						rFH2.7
-----						rFH1.8
-----						rFH1.0

1270	1280	1290	1300	1310	1320	
AGTCTGCAAAAGTCCAGTGTCACAGTGGCTATAGTCTTCCAAATGGTCAAGATACATATT						rFH4.3
AGTCTGCAAAAGTCCAGTGTCACAGTGGCTATAGTCTTCCAAATGGTCAAGATACATATT						rFH2.7
-----						rFH1.8
-----						rFH1.0

SCR8						
1330	1340	1350	1360	1370	1380	
ATTGTACAGAGAATGGCTGGTCCCCTCCTCCCAAATGCGTCCGTATCAAGACTTGTTTCAG						rFH4.3
ATTGTACAGAGAATGGCTGGTCCCCTCCTCCCAAATGCGTCCGTATCAAGACTTGTTTCAG						rFH2.7
-----						rFH1.8
-----						rFH1.0

1390	1400	1410	1420	1430	1440	
TATCAGATATAGAAATTGAAAATGGGTTTTTTTTCTGAATCTGATTATACATATGCTCTAA						rFH4.3
TATCAGATATAGAAATTGAAAATGGGTTTTTTTTCTGAATCTGATTATACATATGCTCTAA						rFH2.7
-----						rFH1.8
-----						rFH1.0

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1450	1460	1470	1480	1490	1500	
ATAGAAAAACACGGTATAGATGTAAACAGGGATATGTAACAAATACCGGAGAAATATCAG					rFH4.3	
ATAGAAAAACACGGTATAGATGTAAACAGGGATATGTAACAAATACCGGAGAAATATCAG					rFH2.7	
-----					rFH1.8	
-----					rFH1.0	

					SCR9	
1510	1520	1530	1540	1550	1560	
GAATAATTACTTGTCTTCAAGATGGATGGTCACCTCGACCCTCATGCATTAAGTCTTGTG					rFH4.3	
GAATAATTACTTGTCTTCAAGATGGATGGTCACCTCGACCCTCATGCATTAAGTCTTGTG					rFH2.7	
-----					rFH1.8	
-----					rFH1.0	

1570	1580	1590	1600	1610	1620	
ATATGCCTGTATTTGAGAATTCTATGACTAAGAATAATAACACATGGTTTAAACTCAATG					rFH4.3	
ATATGCCTGTATTTGAGAATTCTATGACTAAGAATAATAACACATGGTTTAAACTCAATG					rFH2.7	
-----					rFH1.8	
-----					rFH1.0	

1630	1640	1650	1660	1670	1680	
ACAAATTAGACTATGAATGTCACATTGGATATGAAAATGAATATAAACATACCAAAGGCT					rFH4.3	
ACAAATTAGACTATGAATGTCACATTGGATATGAAAATGAATATAAACATACCAAAGGCT					rFH2.7	
-----					rFH1.8	
-----					rFH1.0	

					SCR10	
1690	1700	1710	1720	1730	1740	
CTATAACATGTACTTATGATGGATGGTCTAGTACACCCTCCTGTTATGAAAGAGAATGCA					rFH4.3	
CTATAACATGTACTTATGATGGATGGTCTAGTACACCCTCCTGTTATGAAAGAGAATGCA					rFH2.7	
-----					rFH1.8	
-----					rFH1.0	

1750	1760	1770	1780	1790	1800	
GCATTCCCCTGTTACACCAAGACTTAGTTGTTTTTCCCAGAGAAGTAAAATACAAAGTTG					rFH4.3	
GCATTCCCCTGTTACACCAAGACTTAGTTGTTTTTCCCAGAGAAGTAAAATACAAAGTTG					rFH2.7	
-----					rFH1.8	
-----					rFH1.0	

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1810	1820	1830	1840	1850	1860	
GAGATTCGTTGAGTTTCTCTTGCCGTTTCAGGACACAGAGTTGGAGCAGATTTAGTGCAAT						rFH4.3
GAGATTCGTTGAGTTTCTCTTGCCGTTTCAGGACACAGAGTTGGAGCAGATTTAGTGCAAT						rFH2.7
-----						rFH1.8
-----						rFH1.0

SCR11

1870	1880	1890	1900	1910	1920	
GCTACCACTTTGGATGGTCCCCTAATTTCCCAACGTGTGAAGGCCAAGTAAAATCATGTG						rFH4.3
GCTACCACTTTGGATGGTCCCCTAATTTCCCAACGTGTGAAGGCCAAGTAAAATCATGTG						rFH2.7
-----						rFH1.8
-----						rFH1.0

1930	1940	1950	1960	1970	1980	
ACCAACCTCTTGAAATCCCGAATGGGGAAATAAAGGGAACAAAAAAGTTGAATACAGCC						rFH4.3
ACCAACCTCTTGAAATCCCGAATGGGGAAATAAAGGGAACAAAAAAGTTGAATACAGCC						rFH2.7
-----						rFH1.8
-----						rFH1.0

1990	2000	2010	2020	2030	2040	
ATGGTGACGTGGTGGGAATATGATTGCAAACCTAGATTTCTACTGAAGGGACCCAATAAAA						rFH4.3
ATGGTGACGTGGTGGGAATATGATTGCAAACCTAGATTTCTACTGAAGGGACCCAATAAAA						rFH2.7
-----						rFH1.8
-----						rFH1.0

SCR12

2050	2060	2070	2080	2090	2100	
TCCAGTGTTGACGGGAAGTGGACAAGGTTGCCGATATGCGTTGAGTATGAGAGAACAT						rFH4.3
TCCAGTGTTGACGGGAAGTGGACAAGGTTGCCGATATGCGTTGAGTATGAGAGAACAT						rFH2.7
-----						rFH1.8
-----						rFH1.0

2110	2120	2130	2140	2150	2160	
GTGGAGACCTTCCTGAACTTGAGCATGGCTCTGTCAAGTTATCTGTCCCTCCCTACCATC						rFH4.3
GTGGAGACCTTCCTGAACTTGAGCATGGCTCTGTCAAGTTATCTGTCCCTCCCTACCATC						rFH2.7
-----						rFH1.8
-----						rFH1.0

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2170	2180	2190	2200	2210	2220	
ATGGGAGATT	CAGTGGAGTT	CACTTGTACAGAAACCTT	CACAATGATT	TGGACATGCAGTAG		rFH4.3
ATGGGAGATT	CAGTGGAGTT	CACTTGTACAGAAACCTT	CACAATGATT	TGGACATGCAGTAG		rFH2.7
-----	-----	-----	-----	-----		rFH1.8
-----	-----	-----	-----	-----		rFH1.0

SCR13						
2230	2240	2250	2260	2270	2280	
TTTTCTGCATTAGT	GGAAGGTGGACCGAGCTT	CCTCAATGTGTT	TGCAACAGATCAACTGG			rFH4.3
TTTTCTGCATTAGT	GGAAGGTGGACCGAGCTT	CCTCAATGTGTT	TGCAACAGATCAACTGG			rFH2.7
-----	-----	-----	-----	-----		rFH1.8
-----	-----	-----	-----	-----		rFH1.0

2290	2300	2310	2320	2330	2340	
AGAAGTGTAAGCCCCGAAGTCAACTGGCATAGATGCAATTCATCCAAATAAGAATGAAT						rFH4.3
AGAAGTGTAAGCCCCGAAGTCAACTGGCATAGATGCAATTCATCCAAATAAGAATGAAT						rFH2.7
-----	-----	-----	-----	-----		rFH1.8
-----	-----	-----	-----	-----		rFH1.0

2350	2360	2370	2380	2390	2400	
TTAATCATAACTTTAGTGTGAGTTACAGATGTAGACAAAAGCAGGAGTATGAACATTCAA						rFH4.3
TTAATCATAACTTTAGTGTGAGTTACAGATGTAGACAAAAGCAGGAGTATGAACATTCAA						rFH2.7
-----	-----	-----	-----	-----		rFH1.8
-----	-----	-----	-----	-----		rFH1.0

SCR14						
2410	2420	2430	2440	2450	2460	
TCTGCATCAATGGAAGATGGGATCCTGAACCAAAGTGTACAAGCAAAGATTCTGCCCTC						rFH4.3
TCTGCATCAATGGAAGATGGGATCCTGAACCAAAGTGTACAAGCAAAGATTCTGCCCTC						rFH2.7
-----	-----	-----	-----	-----		rFH1.8
-----	-----	-----	-----	-----		rFH1.0

2470	2480	2490	2500	2510	2520	
CTCCCCCGCAGATTCCAAATGCCCAAGTGATTGAAACCACCGTGAAATACTTGGATGGAG						rFH4.3
CTCCCCCGCAGATTCCAAATGCCCAAGTGATTGAAACCACCGTGAAATACTTGGATGGAG						rFH2.7
-----	-----	-----	-----	-----		rFH1.8
-----	-----	-----	-----	-----		rFH1.0

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2530	2540	2550	2560	2570	2580	
AAAAAGTATCTGTTCTTTGCCAAGATGGTTACCTAACTCAGGGCCCAGAAGAAATGGTGT						rFH1.8
AAAAAGTATCTGTTCTTTGCCAAGATGGTTACCTAACTCAGGGCCCAGAAGAAATGGTGT						rFH2.7
-----						rFH4.3
-----						rFH1.0

SCR15						
2590	2600	2610	2620	2630	2640	
GTAAACATGGAAGGTGGCAGTCGTTACCACGCTGCACGGAAAAAATTCCATGTTCCCAGC						rFH4.3
GTAAACATGGAAGGTGGCAGTCGTTACCACGCTGCACGGAAAAAATTCCATGTTCCCAGC						rFH2.7
-----						rFH1.8
-----						rFH1.0

2650	2660	2670	2680	2690	2700	
CCCCTAAAATTGAACATGGATCTATTAAGTCGCCCAGGTCCTCAGAAGAGAGGAGAGATT						rFH4.3
CCCCTAAAATTGAACATGGATCTATTAAGTCGCCCAGGTCCTCAGAAGAGAGGAGAGATT						rFH2.7
-----						rFH1.8
-----						rFH1.0

2710	2720	2730	2740	2750	2760	
TAATTGAGTCCAGCAGTTATGAACACGGAACCTACATTCAGCTATTGCTGTAGAGATGGAT						rFH4.3
TAATTGAGTCCAGCAGTTATGAACACGGAACCTACATTCAGCTATTGCTGTAGAGATGGAT						rFH2.7
-----						rFH1.8
-----						rFH1.0

2770	2780	2790	2800	2810	2820	
TCAAGATATCTGAAGAAAATAGGGTAACCTGCAACATGGGAAAATGGAGCTCTCTGCCTC						rFH4.3
TCAAGATATCTGAAGAAAATAGGGTAACCTGCAACATGGGAAAATGGAGCTCTCTGCCTC						rFH2.7
-----						rFH1.8
-----						rFH1.0

SCR16						
2830	2840	2850	2860	2870	2880	
GTTGTGTTGGAATACCTTGTGGACCCCCACCTTCAATTCCTCTTGGTATTGTTTCTCATG						rFH4.3
GTTGTGTTGGAATACCTTGTGGACCCCCACCTTCAATTCCTCTTGGTATTGTTTCTCATG						rFH2.7
-----						rFH1.8
-----						rFH1.0

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2890 2900 2910 2920 2930 2940
AACTAGAAAGTTACCAATATGGAGAGGAGGTTACATACAATTGTTCTGAAGGCTTTGGAA rFH4.3
AACTAGAAAGTTACCAATATGGAGAGGAGGTTACATACAATTGTTCTGAAGGCTTTGGAA rFH2.7
----- rFH1.8
----- rFH1.0

2950 2960 2970 2980 2990 3000
TTGATGGACCAGCATTATTAATGTGTAGGAGGACAGTGGTCTGAACCTCCCAAATGCA rFH4.3
TTGATGGACCAGCATTATTAATGTGTAGGAGGACAGTGGTCTGAACCTCCCAAATGCA rFH2.7
----- rFH1.8
----- rFH1.0

SCR17
3010 3020 3030 3040 3050 3060
TAAAAACTGATTGTGACAACCTTGCCACATTTGAAATTGCCAAACCGACAGAAAAGAAAA rFH4.3
TAAAAACTGATTGTGACAACCTTGCCACATTTGAAATTGCCAAACCGACAGAAAAGAAAA rFH2.7
----- rFH1.8
----- rFH1.0

3070 3080 3090 3100 3110 3120
AAAAATCATAACAGGTCAGGAGAACAAGTGACATTGATGTCCACCTCCGTATCGAATGG rFH4.3
----- rFH2.7
-----TATCGAATGG rFH1.8
----- rFH1.0

3130 3140 3150 3160 3170 3180
ATGGCTCTGACATTGTGACATGTGTTAATACGAAGTGGATTGGACAGCCGGTATGCAAAG rFH4.3
----- rFH2.7
ATGGCTCTGACATTGTGACATGTGTTAATACGAAGTGGATTGGACAGCCGGTATGCAAAG rFH1.8
----- rFH1.0

SCR18
3190 3200 3210 3220 3223 3240
ATAATTCTGTGTGAATCCACCACATGTGCCAAATGCTACTATACTAACAAGGCACAAGA rFH4.3
----- rFH2.7
ATAATTCTGTGTGAATCCACCACATGTGCCAAATGCTACTATACTAACAAGGCACAAGA rFH1.8
----- rFH1.0

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3610	3620	3630	3640	3650	3660	
AAAATGCAAAGATTTATTCCCAATCAGGGGAGAATATTGAATTCATGTGTAAACCTGGAT						rFH4.3
-----						rFH2.7
AAAATGCAAAGATTTATTCCCAATCAGGGGAGAATATTGAATTCATGTGTAAACCTGGAT						rFH1.8
-----				GGAT		rFH1.0

3670	3680	3690	3700	3710	3720	
ATAGAAAATTCAGAGGATCACCTCCGTTTCGTACAAAGTGCATTGAGGGTCACATCAATT						rFH4.3
-----						rFH2.7
ATAGAAAATTCAGAGGATCACCTCCGTTTCGTACAAAGTGCATTGAGGGTCACATCAATT						rFH1.8
ATAGAAAATTCAGAGGATCACCTCCGTTTCGTACAAAGTGCATTGAGGGTCACATCAATT						rFH1.0

3730	3740	3750	3760	3770	3780	
ATCCCACTTGTGTATAAaatcgctatacaattattagtaaacccttatggatgagaaatgc						rFH4.3
-----						rFH2.7
ATCCCACTTGTGTATAAaatcgctatacaattattagtaaacccttatggatgagaaatgc						rFH1.8
ATCCCACTTGTGTATAAaatcgctatacaattattagtaaacccttatggatgacactttg						rFH1.0

3790	3800	3810	3820	3830	3840	
acatgtatattactaataacagtttgaatttacatttaaataattgtttagctcatttcctc						rFH4.3
-----						rFH2.7
acatgtatattactaataacagtttgaatttacatttaaataattgtttagctcatttcctc						rFH1.8
tttagaaatgcacatgtatattactaataacagtttgaatttacatttgaaaaa-----						rFH1.0

3850	3860	3870	3880	3890	3900	
taataagtatatataaacttttttttatatggtgggttaatcagtaactttacagactgttgcc						rFH4.3
-----						rFH2.7
taataagtatatataaacttttttttatatggtgggttaatcagtaactttacagactgttgcc						rFH1.8
-----						rFH1.0

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3910	3920	3930	3940	3950	3960	
acaaagcaagaacattacattcaaaaactcctaatacctaatatgatattgtccaaggacaaa						rFH4.3
-----						rFH2.7
acaaagcaagaacattacattcaaaaactcctaatacctaatatgatattgtccaaggacaaa						rFH1.8
-----						rFH1.0

3970	3980	3990	4000	4010	4020	
ctatgtctaaagcaagaaaataaatgttagttcttcaatgtctgtttttattcaggacctt						rFH4.3
-----						rFH2.7
ctatgtctaaagcaagaaaataaatgttagttcttcaatgtctgtttttattcaggacctt						rFH1.8
-----						rFH1.0

4030	4040	4050	4060	4070	4080	
tcagattttcttggataccttttgttaggttcttgattcacagtgagtgggaagacacactg						rFH4.3
-----						rFH2.7
tcagattttcttggataccttttgttaggttcttgattcacagtgagtgggaagacacactg						rFH1.8
-----						rFH1.0

4090	4100	4110	4120	4130	4140	
actctgacttcaaattagtagtattacttgcaatacattaacaaccaaactatcataatatca						rFH4.3
-----						rFH2.7
actctgacttcaaattagtagtattacttgcaatacattaacaaccaaactatcataatatca						rFH1.8
-----						rFH1.0

4150	4160	4170	4180	4190	4200	
caaattgtatacagctaattactgtgtcctacctttgtatcaataaagaaatctaagaaag						rFH4.3
-----						rFH2.7
caaattgtatacagctaattactgtgtcctacctttgtatcaataaagaaatctaagaaag						rFH1.8
-----						rFH1.0

4210	4220	4230	
ttcttgcttaaaaaaaaaaaaaaaaaaaaaa			rFH4.3
-----			rFH2.7
ttcttgcttaaaaaaaaaaaaaaaaaaaaaa			rFH1.8
-----			rFH1.0